## Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the present application.

1. (previously amended) A product comprising:

a substrate having a strain point or a melting point temperature between about 300°C and 700°C; and

a plurality of substantially aligned carbon nanotubes attached to the substrate at a density greater than 10<sup>4</sup> nanotubes per square millimeter of substrate.

- 2. (original) A product as claimed in claim 1, wherein the carbon nanotubes extend outwardly from and substantially perpendicular to the substrate.
- 3. (original) A product as claimed in claim 1, wherein the carbon nanotubes extend outwardly from and at a non-perpendicular angle with respect to the substrate.
- 4. (original) A product as claimed in claim 1, wherein the carbon nanotubes extend substantially parallel to the substrate.
- 5. (original) A product as claimed in claim 1, wherein the nanotubes have a diameter between 4 to 500 nanometers.
- 6. (original) A product as claimed in claim 1, wherein the nanotubes have a diameter of at least 50 nanometers.

## 7-8 (canceled)

- 9. (original) A product as claimed in claim 1, wherein the substrate comprises glass, silica, quartz, silicon, iron, cobalt, nickel, an alloy of iron, cobalt, or nickel, platinum, a ceramic, or a combination thereof.
- 10. (original) A product as claimed in claim 9, wherein the substrate is a glass plate.
- 11. (original) A product as claimed in claim 9, wherein the substrate is a silicon wafer.

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12. (previously amended) A product as claimed in claim 87, wherein the catalyst is a metal or metal alloy and wherein substantially all carbon nanotubes have a cap distal from the substrate, the cap comprising the metal or metal alloy.

- 13. (previously amended) A product as claimed in claim 12, wherein the metal or metal alloy is iron, cobalt, nickel, or an alloy of iron, cobalt, or nickel.
- 14. (previously amended) A product as claimed in claim 13, wherein the metal or metal alloy is nickel.
- 15. (original) A product as claimed in claim 1, further comprising a filling within the carbon nanotubes.
- 16. (original) A product as claimed in claim 1, wherein substantially all carbon nanotubes have an open end.
- 17. (original) A product as claimed in claim 16, further comprising a filling within the carbon nanotubes.
- 18. (original) A product as claimed in claim 17, wherein the filling is hydrogen, lithium ions, bismuth, lead telluride, or bismuth tritelluride.
- 19. (original) A product as claimed in claim 17, wherein the filling is a pharmacological agent.
- 20. (original) A product as claimed in claim 17, wherein the filling is enclosed within the carbon nanotubes.
- 21. (previously amended) A product comprising:
  a substrate having a strain point or a melting point temperature between about 300°C and 700°C; and
- a plurality of substantially aligned carbon nanotubes attached to the substrate at a density no greater than  $10^2$  nanotubes per square millimeter of substrate.
- 22. (original) A product as claimed in claim 21, wherein the carbon nanotubes extend outwardly from and substantially perpendicular to the substrate.

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- 23. (original) A product as claimed in claim 21, wherein the carbon nanotubes extend outwardly from and at a non-perpendicular angle with respect to the substrate.
- 24. (original) A product as claimed in claim 21, wherein the carbon nanotubes extend substantially parallel to the substrate.
- 25. (original) A product as claimed in claim 21, wherein the nanotubes have a diameter between 4 to 500 nanometers.
- 26. (original) A product as claimed in claim 21, wherein the nanotubes have a diameter of at least about 50 nanometers.

- 29. (original) A product as claimed in claim 21, wherein the substrate comprises glass, silica, quartz, silicon, iron, cobalt, nickel, an alloy of iron, cobalt, or nickel, platinum, a ceramic, or a combination thereof.
- 30. (original) A product as claimed in claim 29, wherein the substrate is a glass plate.
- 31. (original) A product as claimed in claim 29, wherein the substrate is a silicon wafer.
- 32. (original) A product as claimed in claim 21, further comprising a filling within the carbon nanotubes.
- 33. (original) A product as claimed in claim 21, wherein substantially all carbon nanotubes have an open end.
- 34. (original) A product as claimed in claim 33, further comprising a filling within the carbon nanotubes.
- 35. (original) A product as claimed in claim 34, wherein the filling is hydrogen, lithium ions, bismuth, lead telluride, bismuth tritelluride, or a pharmacological agent.

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- 36. (original) A product as claimed in claim 34, wherein the filling is enclosed within the carbon nanotubes.
- 37. (presently amended) A product comprising:

  a substrate having a strain point or a melting point temperature between about 300°C and 700°C and

one or more carbon nanotubes originating formed on and extending outwardly from an outer surface of the substrate.

38-77 (canceled)

78. (previously amended) A field emission display comprising:

a baseplate having an electron emitting array positioned thereon, the
baseplate comprising a substrate and one or more free-standing carbon nanotubes originating
and extending outwardly from an outer surface of the substrate; and

a phosphor coated plate spaced apart from the baseplate so that electrons emitted from the array impinge on the phosphor coating.

79-86 (canceled)

- 87. (previously added) A product according to claim 1, wherein the substrate comprises a catalyst.
- 88. (previously added) A product according to claim 87, wherein the substrate includes a substrate layer and a continuous or non-continuous catalyst layer between the substrate layer and the plurality of substantially aligned carbon nanotubes.
- 89. (previously added) A product according to claim 87, wherein the substrate is formed of the catalyst.